

LUMPED RAMAN AMPLIFIER FOR ADAPTIVE DISPERSION COMPENSATION

Abstract of the Disclosure

5 An adaptive dispersion compensation system that also achieves optical
amplification by inducing Raman amplification effects in dispersion compensating fiber.
This amplification/chromatic dispersion compensation architecture may be applied, e.g.,
at the end of an all-optical link, or an intermediate points along the link. By varying the
length of dispersion compensating fiber used and the pump power, one may
10 accommodate a wide range of dispersion compensation requirements as determined in the
field. This scheme also provides all of the advantages typically provided by the use of
Raman amplification.